

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0003**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0003

Waterway			Bank	Unit Miles
Unit No. 01 Feather River			Right	5.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/30/2016			
DWR Inspector	Sterling York			
Accompanied By	Steve Beckley			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0003_01_s _ 2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0003_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0003_01_s _ 2013_7				
Comment Code					
Inspector Comment					
The Sutter Yard has received flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	0.01	Rating **	M	Issue No.	21
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897986 °	38.929237 °
				-121.617809 °	-121.588615 °
DWR ID	DWR_MA0003_01_s _ 2016_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.05	Rating **	C	Issue No.	9
LM End	0.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.897878 °	38.897878 °
				-121.617088 °	-121.617088 °
DWR ID	DWR_MA0003_01_s _ 2015_9				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.33	Rating **	M	Issue No.	19
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.900054 °	38.929240 °
				-121.612805 °	-121.588615 °
DWR ID	DWR_MA0003_01_s _ 2016_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	0.78	Rating **	M	Issue No.	140
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a rodent hole on the landward toe road approximately 6" in diameter.					

LM Start	0.78	Rating **	M	Issue No.	140 (cont)
LM End	0.78	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_MA0003_195_140_20160307_00011.jpg



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 6" rodent hole. Fall 2014.

Photo 2 of 2 : SP_2016_MA0003_195_140_20160307_00012.jpg



This is another photo of the rodent hole to show its relationship to the levee toe, toe road, and drainage ditch. Fall 2014.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	0.81	Rating **	U	Issue No.	144
LM End	0.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48415 DS_ID:17091 EP_NO: 13624 Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/18/2016 No repairs have been made to the pipe yet.5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet.11/17/2014 Same as last inspection.5/14/2014 Pipe section that was suspected of leaking was dug up and deemed to be in good condition. No signs of leaks were found.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. Hole in slope along outside of standpipe thats about 1 foot deep with moisture in the bottom. Dirt inside standpipe around siphon breaker also wet indicating there may be a leak. Need to investigate source or moisture. FIELD_STRUCT_DESC: 20-inch steel drainage pipe through the levee 3 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Open on WS end. Pump in ditch on landside (LS). (Permit No. 13624-1983, Danna and Danna, Inc.) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/22/2016 12:55:00 PM					

Photo 1 of 2 : UCIP_SP_2016_48415_64654.jpg



Pump on concrete headwall at LS toe.

LM Start	0.81	Rating **	U	Issue No.	144 (cont)
LM End	0.81	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_48415_64653.jpg



Pipe at outlet on WS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142
LM End	0.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48094
DS_ID:17092
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/18/2016 No repairs have been made to the pipe yet.5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop.10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall.
FIELD_STRUCT_DESC: 1 of 2. 18-inch drainage pipe through the levee, 32.0 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall.
Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].
FS Date: 4/22/2016 12:52:00 PM

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_48094_64649.jpg



Concrete headwall with walkway and slide gates at LS toe.

Photo 2 of 2 : UCIP_SP_2016_48094_64648.jpg



Concrete U shaped headwall on WS toe filled in with Sandbags. 16-inch pipe shown over top of headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	0.81	Rating **	U	Issue No.	143
LM End	0.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48414
DS_ID:17136
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/18/2016 No repairs have been made to the pipe yet.5/12/2015 Watelevel high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop.10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall.
FIELD_STRUCT_DESC: 2 of 2. 18-inch pipe through the levee, 32.0 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].
FS Date: 4/22/2016 12:55:00 PM

LM Start	0.81	Rating **	U	Issue No.	143 (cont)
LM End	0.81	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_48414_64662.jpg



Concrete headwall, slidegates, and metal walkway on LS toe.

Photo 2 of 2 : UCIP_SP_2016_48414_64661.jpg



Concrete U shaped headwall on WS toe filled with sandbags.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	1.51	Rating **	M	Issue No.	13
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.904680 °	38.904680 °
				-121.594229 °	-121.594229 °
DWR ID	DWR_MA0003_01_s_2015_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0003_195_13_20160307_00006.jpg



Photo of a depression in the crown, taken looking at the landside.

LM Start	1.77	Rating **	M	Issue No.	14
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.907025 °	38.907025 °
				-121.590375 °	-121.590375 °
DWR ID	DWR_MA0003_01_s_2015_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0003_195_14_20160307_00007.jpg



* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	2.17	Rating **	M	Issue No.	145
LM End	2.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.911734 °	38.911734 °
				-121.586106 °	-121.586106 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48417
DS_ID:17088
EP_NO: 3284
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/18/2016 WS vault is being overgrown with blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing.5/12/2015 Only the right flapgate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details.10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate.
FIELD_STRUCT_DESC: 32-inch by 32-inch concrete irrigation culvert through the levee approximately 28 feet below the crown. Transition between vault on waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate on landside (LS) at concrete headwall. Flap gate in concrete vault on WS at terminal of pipes from pump structure in floodway. Pipes from pump station in creek be no longer connected. (Permit No. 3284) [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 4/22/2016 12:57:00 PM

Photo 1 of 2 : UCIP_SP_2016_48417_64668.jpg



32X32 box culvert on LS toe in Concrete U shaped channel with slide gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	2.17	Rating **	M	Issue No.	145 (cont)
LM End	2.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.911734 °	38.911734 °
				-121.586106 °	-121.586106 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48417
DS_ID:17088
EP_NO: 3284
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/18/2016 WS vault is being overgrown with blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing.5/12/2015 Only the right flapgate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details.10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate.
FIELD_STRUCT_DESC: 32-inch by 32-inch concrete irrigation culvert through the levee approximately 28 feet below the crown. Transition between vault on waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate on landside (LS) at concrete headwall. Flap gate in concrete vault on WS at terminal of pipes from pump structure in floodway. Pipes from pump station in creek be no longer connected. (Permit No. 3284) [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 4/22/2016 12:57:00 PM

Photo 2 of 2 : UCIP_SP_2016_48417_64667.jpg



8-foot X 14-foot concrete box on WS toe with slide gate and 3 abandoned flap gates.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	2.18	Rating **	M	Issue No.	15
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.18	Rating **	A/W	Issue No.	18
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.19	Rating **	C	Issue No.	141
LM End	2.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.912027 °	38.912027 °
				-121.585941 °	-121.585941 °
DWR ID	DWR_MA0003_01_f_2014_141				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	3.20	Rating **	M	Issue No.	20
LM End	3.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.925909 °	38.925909 °
				-121.585401 °	-121.585401 °
DWR ID	DWR_MA0003_01_s_2015_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0003_195_20_20160307_00010.jpg



Photo of slope on the landside facing upstream, areas with little vegetation appear to have eroded leaving the crown smaller.

LM Start	3.75	Rating **	M	Issue No.	12
LM End	4.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.932157 °	38.942033 °
				-121.591031 °	-121.587681 °
DWR ID	DWR_MA0003_01_s_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0003_195_12_20160404_00028.jpg



Vegetation on the landside looking downstream.

LM Start	3.75	Rating **	M	Issue No.	17
LM End	4.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.932157 °	38.942039 °
				-121.591031 °	-121.587680 °
DWR ID	DWR_MA0003_01_s_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0003_195_17_20160404_00027.jpg



Vegetation on waterside looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	3.78	Rating **	M	Issue No.	146
LM End	3.78	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.932482 °	38.932482 °	
			-121.591005 °	-121.591005 °	
DWR ID					

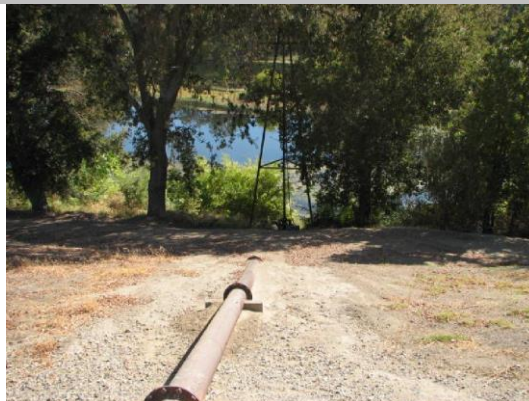
Comment Code

Inspector Comment

FS_ID:48421
DS_ID:17087
EP_NO: 1730
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/18/2016 Big depression on LS toe along the pipe alignment. 5/12/2015 Crossing appears to be in good condition. No noticeable issues to report. 11/17/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/21/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.
FIELD_STRUCT_DESC: 12-inch pipe through the levee, 4.5 feet below the crown. Gate valve and pump located on the waterside (WS). 24-inch concrete standpipe located on the landside (LS) toe has been degraded to ground elevation and filled in with soil. Pipe remains intact. Steel tower over pump on is located on the WS. (Permit No. 1730, 1959-Robert L. Crandall). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 4/22/2016 1:02:00 PM

LM Start	3.78	Rating **	M	Issue No.	146 (cont)
LM End	3.78	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_48421_64672.jpg



Pipe, pump, and tower on WS slope/toe.

Photo 2 of 2 : UCIP_SP_2016_48421_64671.jpg



Pipe at LS shoulder showing exposed concrete cutoff wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	4.15	Rating **	M	Issue No.	1
LM End	4.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.937451 °	38.937937 °
				-121.588512 °	-121.588471 °
DWR ID	DWR_MA0003_01_s_2016_1				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve. 2015: Last observed in 2013. [2015 Site ID: FHR_12-3_R]					

LM Start	4.15	Rating **	M	Issue No.	1 (cont)
LM End	4.18	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2016_MA0003_195_1_20160307_00001.jpg



USACE 2013 Photo #1

Photo 2 of 2 : SP_2016_MA0003_195_1_20160307_00002.jpg



USACE 2013 Photo #2

LM Start	4.71	Rating **	M	Issue No.	2
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °	38.945958 °
				-121.586096 °	-121.586394 °
DWR ID	DWR_MA0003_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion into the bank slope.					
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]					

Photo 1 of 2 : SP_2016_MA0003_195_2_20160307_00003.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	4.71	Rating **	M	Issue No.	2 (cont)	
LM End	4.76	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °		38.945958 °
				-121.586096 °		-121.586394 °
DWR ID	DWR_MA0003_01_s_2016_2					
Comment Code						
Inspector Comment						
2013 - Minor toe scour causing gradual erosion into the bank slope.						
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]						

Photo 2 of 2 : SP_2016_MA0003_195_2_20160307_00004.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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